

Names of people with whom you worked on this: _____

Please use this answer sheet for the "Coins" take-home problem

(1) (a) (2,1,1,1), _____

(b) (4), _____

(c) (3,3), _____

(d) (4,2,1), _____

(3) (2,2,2,2), _____

(2) Explanation:

(3) (a) Fixed point: _____ Fixed point: _____

(b) Which states are fixed points: _____

(c) Number of coins in fixed points: _____

(d) Proof: (Show (a) that these points are fixed points, and (b) any fixed point is one of these states)

(4) (a) 2 cycle: _____

(b) Which states are two cycles: _____

(c) Number of coins in 2-cycle state: _____

(5) (a) G_6 :

(b) G_7 :

(6) (a) _____

(b) _____

(c) (You may skip this part)

(7) (a) _____

(b) _____

(c) _____

(d) _____

(e) _____

(8) (a) Cyclic states: _____

(b) (You may skip this part):

